

ABSTRACT OF THE INVENTION

The present invention relates to newly identified nucleic acids and polypeptides present in normal and neoplastic colon cells, including fragments, variants and derivatives of the nucleic acids and polypeptides. The present invention also relates to antibodies to the polypeptides of the invention, as well as agonists and antagonists of the polypeptides of the invention. The invention also relates to compositions comprising the nucleic acids, polypeptides, antibodies, variants, derivatives, agonists and antagonists of the invention and methods for the use of these compositions. These uses include identifying, diagnosing, monitoring, staging, imaging and treating colon cancer and non-cancerous disease states in colon tissue, identifying colon tissue, monitoring and identifying and/or designing agonists and antagonists of polypeptides of the invention. The uses also include gene therapy, production of transgenic animals and cells, and production of engineered colon tissue for treatment and research.

Climatic conditions		Soil conditions		Plant growth		Soil moisture		Soil temperature		Soil pH		Soil organic matter		Soil nitrogen		Soil phosphorus		Soil potassium		Soil calcium		Soil magnesium		Soil sulfur		Soil zinc		Soil copper		Soil iron		Soil boron		Soil molybdenum		Soil cobalt		Soil nickel		Soil vanadium		Soil selenium		Soil arsenic		Soil antimony		Soil tellurium		Soil iodine		Soil bromine		Soil strontium		Soil barium		Soil lanthanum		Soil cerium		Soil praseodymium		Soil neodymium		Soil europium		Soil gadolinium		Soil terbium		Soil dysprosium		Soil holmium		Soil erbium		Soil thulium		Soil ytterbium		Soil lutetium		Soil hafnium		Soil tantalum		Soil tungsten		Soil rhenium		Soil osmium		Soil iridium		Soil platinum		Soil gold		Soil silver		Soil cadmium		Soil mercury		Soil thallium		Soil lead		Soil tin		Soil antimony		Soil bismuth		Soil polonium		Soil astatine		Soil francium		Soil radium		Soil actinium		Soil thorium		Soil protactinium		Soil uranium		Soil neptunium		Soil plutonium		Soil americium		Soil curium		Soil berkelium		Soil californium		Soil einsteinium		Soil fermium		Soil mendelevium		Soil nobelium		Soil lawrencium		Soil roentgenium		Soil darmstadtium		Soil meitnerium		Soil hassium		Soil tennessine		Soil oganesson	
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